

BRUHATH BANGALORE MAHANAGARA PALIKE

Rajarajeshwari Nagar Zone

O/o Executive Engineer(Ele), Rajarajeshwari nagar Zone, BBMP, Bangalore

Bill of Quantities (BOQ)

Memorandum Showing the Specifications, Quantities and Rates of items to be Executed

Name of the Work:-Providing Tubular poles, Street light fittings and AB/UG Cable along with required Accessories at BFW Road from Pipe line road To HMT Railway bridge , ward No-16, RR Nagar Zone.(Others)

Tender Number:- BBMP/2021-22/EL/WORK_INDENT48501

Name of the Contractor:			M/s Maruthi Electricals , Prop. Thimmaiah Manjunatha					
SN o	Approve d Qty	Item Name	Sanctioned Est Rates			Approved Tender Rates		
			Unit	Estimate Rate	Total Amount	Rate in Figure	Rate in Words	Total Amount
1	80	Part-A Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975, 3.5 core 25 sqmm	Mtr	180	14400	160.0	Rupees One Hundred and Sixty Only	12800.00
2	80	Part-A Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. On wall /Structure. 25 sqmm to 75 sqmm	Rmt	15.5	1240	5.0	Rupees Five Only	400.00
3	5	Part-A Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each	4030	20150	3150.0	Rupees Three Thousand One Hundred and Fifty Only	15750.00
4	12	Part-A Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 50x50x6mm	Per Mtr	330	3960	235.0	Rupees Two Hundred and Thirty Five Only	2820.00
5	5	Part-A Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 100 to 125Amps	Each	7200	36000	5700.0	Rupees Five Thousand Seven Hundred Only	28500.00
6	8000	Part-A Supplying and fixing hylum plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.	Sqcm	0.24	1920	0.11	Rupees Zero Only Paise Eleven Only	880.00
7	300	Part-A Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring. 4 Sq mm	Mtr	9	2700	7.0	Rupees Seven Only	2100.00

Contractor

Executive Engineer (Elec)
Rajarajeshwari Nagar Zone,
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EE(ELE-RRN)

SN o	Approve d Qty	Item Name	Sanctioned Est Rates			Approved Tender Rates		
			Unit	Estimate Rate	Total Amount	Rate in Figure	Rate in Words	Total Amount
8	16	Part-A Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency> 130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source. LED Streetlight 90 Watts	No	7160	114560	3650.0	Rupees Three Thousand Six Hundred and Fifty Only	58400.00
9	25	Part-A Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S.base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median. 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mmdia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32	Each	13200	330000	9320.0	Rupees Nine Thousand Three Hundred and Twenty Only	233000.00
10	15	Part-A Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes .25 sqmm. Long Barrel	Each	20	300	10.0	Rupees Ten Only	150.00

Mejaneeth
Contractor

Rob
EE(ELE-RRN)
Executive Engineer (Elec)
Rajarajeshwari Nagar Zone,
Brahm Bangalore Mahanagara Palike

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			Unit	Estimate Rate	Total Amount	Rate in Figure	Rate in Words	Total Amount
11	5	Part-A Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. 300mmx450mmx214mm	Each	5127	25635	4550.0	Rupees Four Thousand Five Hundred and Fifty Only	22750.00
12	25	Part-A Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories. Single bracket 1.5 Mtr. Length	Each	1200	30000	810.0	Rupees Eight Hundred and Ten Only	20250.00
13	5	Part-A Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63Amps TPN	Each	2397	11985	2150.0	Rupees Two Thousand One Hundred and Fifty Only	10750.00
14	5	Part-A Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 63Amps	Each	227	1135	195.0	Rupees One Hundred and Ninety Five Only	975.00
		Sub total -part-A						409525.00
15	2500	Part-B Supplying and stringing of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 1 2 X 16 + 1 X 25 SQ.MM	Mtr	92	230000	75.0	Rupees Seventy Five Only	187500.00
16	55	Part-B Supplying and fixing pole clamp for LT AB Cable	Each	314	17270	210.0	Rupees Two Hundred and Ten Only	11550.00

Rajeshwar
Contractor

Rajeshwar
Executive Engineer (Elect)
Rajarajeshwar Nagar Zone,
Brahm Bangalore
EE(ELE-RRN)

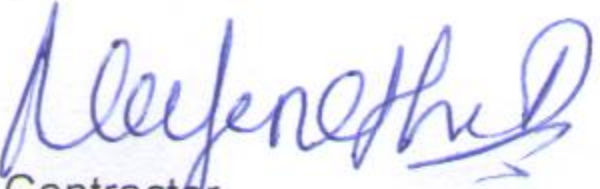
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17	55	Part-B Suspension Clamp Assembly 16 to 70 mm (Excluding pole clamp & Eye Hook) (material cost + labour charges)	Set	323	17765	180.0	Rupees One Hundred and Eighty Only	9900.00
18	15	Part-B Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm (excluding pole clamps and Eye hook) (material cost + labour charges)	Set	304	4560	165.0	Rupees One Hundred and Sixty Five Only	2475.00
19	55	Part-B Universal Hook, Bolts & nuts including fixing charges (material cost + labour charges)	No	441	24255	85.0	Rupees Eighty Five Only	4675.00
20	100	Part-B Piercing connector suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections including fixing charges(material cost + labour charges)	No	224	22400	135.0	Rupees One Hundred and Thirty Five Only	13500.00
		Sub total -part-B			910235			229600.00
		GST Applicable @12% on part-A only						49143.00
		Total Amout(Exluding GST)						639125.00
		Tender premium						-29.78%

Certificate:-

- I agree to Execute this work at the Rates mentioned above in the Schedule-B/BOQ.
- I am ready to carry out the work as per the directions of Engineer-in-Charge of Work.
- I am ready to carry out the work as per the tender terms and conditions.

Seal & Signature of Contractor


Executive Engineer(Ele),
Bruhat Bangalore Mahanagara
RR Nagar Zone


Contractor

EE(ELE-RRN)